Date: Sun, 10 Apr 94 04:30:17 PDT
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: Bulk
Subject: Ham-Equip Digest V94 #101
To: Ham-Equip

Ham-Equip Digest Sun, 10 Apr 94 Volume 94 : Issue 101

Today's Topics:

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 10 Apr 94 05:16:25 GMT
From: dog.ee.lbl.gov!agate!usenet.ins.cwru.edu!odin!trier@ucbvax.berkeley.edu
Subject: >>> Ham Rig Crystals Wanted <<<
To: ham-equip@ucsd.edu

The following crystal suppliers have been recommended by various people
in recent times here and elsewhere on the net:

JAN Crystals 1-800-JAN-XTAL
Internat'l Crystals 1-800-ICM-XTAL
Bomar Crystals 908-356-7787
Hy-Q Intl. in Erlanger, Kentucky. (I don't have the phone number)

I have no affiliation with any of these. I'm not even a customer.

BTW, it's usually OK to omit ***EXTRA*** >>>Punctuation<<< in
messages.

        Stephen

--
Stephen Trier KB8PWA   "It don't mean a thing if it ain't got that
Other: trier@ins.cwru.edu   certain je ne sais quoi."
Home: sct@po.cwru.edu   - Peter Schickele

Date: Sat, 9 Apr 1994 22:41:38 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!news.intercon.com!uhog.mit.edu!
nntp.club.cc.cmu.edu!godot.cc.duq.edu!birdie-blue.cis.pitt.edu!gvls1!
rossi@network.ucsd.edu
Subject: ATTENTION - Icom IC-W2A owners
To: ham-equip@ucsd.edu

I have a question about IC-W2A wideband receive.

A friend bought a new W2A this morning (Sat 4/9). When he got it home
and hooked it up he did the wideband receive keypad mod (3 # B ON).

It will "tune" above 450 and below 440 just fine but he can't *hear* anything
above 450. My IC-24AT sitting right next to his W2A (with same rubber duck
antenna) is picking up local police, etc in the 453-454 range like crazy
while his W2A is silent.

If he sets the squelch right on the threshold at 450.000 the receiver stays
quiet below 450, but at 450.005 and above there is a faint buzzing sound
in the background. This buzzing sound is through the entire 450-500
range. It seems to hear 800 MHz OK. The exact same thing happens when
he tunes below 440.000 MHz. The buzzing starts at 439.995

At first we thought there was something wrong with the radio so he took it
back to the store (HRO Delaware) and they gave him another one that *appeared*
to work OK in the store (real fast check) but after getting home he finds
that the second radio is acting exactly the same. (?)

The problem sounds almost like local interference however, none of this
buzzing sound is detected on my IC-24AT sitting 3 feet away - same antenna.
We took his W2A out to my car an put in on my mobile antenna and we could
hear a few Phila police calls around 453 MHz in the noise on the mobile
antenna while I was hearing them full quieting on my IC-24AT with the

rubber duck.

He plans to call Icom first thing Monday morning since a few days prior to this he talked to someone out there who said there would be no problem receiving 450-470 MHz with the W2A.

Anyone else ever experience anything like this with a W2A?

==========
Pete Rossi - WA3NNA rossi@vfl.paramax.COM

Unisys Corporation - Government Systems Group
Valley Forge Engineering Center - Paoli, Pennsylvania
==========

Date: 09 APR 94 22:58:54 CST
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!vixen.cso.uiuc.edu!
moe.ksu.ksu.edu!kuhub.cc.ukans.edu!news.umkc.edu!noc.nemostate.edu!
ACADEMIC.NEMOSTATE.EDU@network.ucsd.edu
Subject: Azden PCS - 2000 Question
To: ham-equip@ucsd.edu

In article <ojg.40.00086DF3@tis.inel.gov> ojg@tis.inel.gov (Jay C. Greenberg) writes:
>I used to have an Azden PCS - 2000. I can't rember if it was able to work
>MARS and CAP. I have access to another 2000 but hesitate picking it up if it
>won't modify. Does anyone know if it can be modified???? Also, what do you
>think they are worth today???
>
Yes the PCS-2000 can be modified for CAP/MARS. Although I have not tried to modify mine, I do have the instruction sheet from Amateur Wholesale Electronics. If you do not need a crossband split, you need to run a jumper from pin 13 of the TC9122 to the green wire on the plug-in connector on the transmitter board. You will need to set scan switch in one of the left positions. The display will not show your actual frequency, but will show 144.xxx for 148.xxx, 145.xxx for 149.xxx, 146.xxx for 142.xxx and 147.xxx for 143.xxx You will also need to install an offset crystal using the formula xtal freq (Mhz) = 16.9 + offset (Mhz). There is more to do if you want crossband capability.

If you are serious about doing this mod, you probably need a better set of instructions than I have provided here. If you will send me a SASE, I will photo copy the instruction sheet for you.

James Scudder WB0RPS

104 S. Cottage Grove
Kirksville, MO 63533
ae85%nemomus.bitnet@academic.nemostate.edu

Date: Fri, 8 Apr 1994 19:08:03 GMT
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!uwm.edu!mixcom.com!
kevin.jessup@network.ucsd.edu
Subject: Best cars for mobile HF/VHF??
To: ham-equip@ucsd.edu

In <2o21kb$8rt@auggie.CCIT.Arizona.EDU> hlester@nelson.as.arizona.edu (Howard
Lester) writes:

>I recently installed a Yaesu Ft-2400H 2-meter mobile in my Honda Civic 1991;
>I've experienced no problems at all. So far, I've run it up to 25 watts;
>the antenna cable runs away from the passenger side of the car (where the
>computer is located).

I agree. I recently installed an FT-2400H in my 1992 Honda Civic 4-door.
I can run 50 Watts all day with no trouble or funny operations on the
dashboard/wipers/radio/clock etc.

I ran 14 guage wire directly to the battery through the air conditioning
condensor drain grommet (room for the wire and the drain) on the passenger
side. Low loss Comet coax runs to a 5/8 wave Comet antenna on a trunk-lip
mount. The radio is mounted almost vertically on the passenger side of
the center console.

Same installation on my 1991 Toyota Tercel 2-door. No problems.

I've heard horror stories from others, Keep the radio and coax away from
the ECU. DO NOT use the vehicles electrical system. (Don't connect to
the cigarette lighter or fuse block.) Go directly to the battery and
you should be OK.

--
  /`-_   kevin.jessup@mixcom.com
 {   }/   Marquette Electronics, Inc
  \   /   N9SQB, ARRL, Amateur Radio
   |__*| N9SQB @ WD9ANY.#MKE.WI.USA.NA

Date: Fri, 8 Apr 94 11:52:59 MST
From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!utnut!torn!uunet.ca!uunet.ca!
lhaven.UUmh.Ab.Ca!Pj_Butts@ames.arpa

Subject: DATARADIO 9600BAUD 4SALE
To: ham-equip@ucsd.edu

FOR SALE
****

10 - DATARADIO 9600 Baud COMMERCIAL RF MODEMS C/W
     ON-BOARD 5 PORT RS232 MUX
     CONTIN. DUTY UHF TRANSCEIVER
     INTERNAL POWER SUPPLY

***These unit's are brand new.They would make excellent feeder units to
   to multi-stacked node sites.Also have a 6 bit i/o for monitoring for
   power failures,intrusion,high vswr,etc.All programming can be done
   by remote or local.***

***Asking $1000.00 each.Will consider a better deal for Ham clubs.
***Will also consider trade's for other Ham gear,hf,vhf,uhf,etc.

   FOR MORE INFO PLEASE SEND REPLY TO ME AT

   Pj_Butts@LHaven.UUmh.Ab.Ca.   OR
   VE6PJB @ VE6PAQ.AB.CA.NA (PACKET RADIO ADDRESS)

-- Via DLG Pro v1.0

 Preferred: Pj_Butts@LHaven.UUmh.AB.CA
 Alternate: Pj.Butts@f3002.n134.z1.fidonet.org

Date: 9 Apr 1994 00:10:08 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!darwin.sura.net!
perot.mtsu.edu!cmobley@network.ucsd.edu
Subject: DJ580 Mods
To: ham-equip@ucsd.edu

Are there any MODS that will allow the DJ580 to transmit on the 800/900
mhz band ?   I know that this would be illegal. . .I am just curious
about this because a friend of mine says that there is, and I say
that the MOD for 800 is only a receive one.

Date: 10 Apr 1994 04:02:01 -0400
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!news.ans.net!
hp81.prod.aol.net!search01.news.aol.com!not-for-mail@network.ucsd.edu
Subject: DJ580 Mods

To: ham-equip@ucsd.edu

In article <2o4rp0$i7d@perot.mtsu.edu>, cmobley@perot.mtsu.edu (Ms. Claire Mobley) writes:

>Are there any MODS that will allow the DJ580 to transmit on the 800/900
>mhz band ?
...
>and I say
>that the MOD for 800 is only a receive one

If there is a mod for the DJ580 for receive on 800-900 MHz, could someone point me towards the source???
Thanks, scott nx7u@aol.com

Date: Fri, 8 Apr 1994 23:05:04 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!news.cic.net!magnus.acs.ohio-state.edu!csn!col.hp.com!fc.hp.com!wayne@network.ucsd.edu
Subject: How phasing SSB Exciters Work (Was: RF and AF speech processors)
To: ham-equip@ucsd.edu

> So long as the additional filtering is done to both channels identically,
> the phase and amplitude matching between the two channels is not afffected.
                         ^^^^^^^^
> AL N1AL

Umm... true. But the overall group delay is affected. There is an offline discussion going on on this. The essence of it is that the finite zeros out of the passband by themselves don't affect the phase (certainly true) but the somewhat different pole positions have an effect of to-be-determined significance. Stand by.

Wayne

Date: 9 Apr 94 22:14:43 GMT
From: agate!howland.reston.ans.net!noc.near.net!news.tufts.edu!news.hnrc.tufts.edu!jerry@ucbvax.berkeley.edu
Subject: HTs with extended RX
To: ham-equip@ucsd.edu

If any post needed a warning to proceed at your own risk, this is is. That said . . .

It seems there are many of us in the market for a dual

band HT with extended RX so that one can be mobile with the greatest amount of RX capability and the fewest number of units. My summary of what's been offered is (no hands on experience with any units) is . . .

The suggested models are

	QST (March 1994) typical sellling price	reported extended RX (from various mod files)
ICOM W21AT	514	50-999
Standard C558	529	100-199,300-500,800-999 100-173,342-471,823-990 (PLL lock)
Yaesu FT-530	439	110-180,300-500,800-950
Alinco DJ-580T	409	???

The DJ-580--or Alinco, rather--gets mixed reports. Some really like their units. Others report of (or of hearing of) bad experiences wtih the 580. It's the least expensive of the lot. One ICOM/Alinco dealer told me the 580 has the less tight front end and would not be as suitable in a high RF location.

The Standard, already the most expensive to begin with, requires an extra CTCSS unit. Extended RX is a keyboard function.

The FT-530 is less expensive and has a slide out lithium backup battery. Extended RX is a hardware mod.

The W21AT has the widest range of extended RX.

Some questions remain, however. There have been reports that the wideband reception in these units limits their abilities as scanner-replacements. (Unfortunately, since these capabilities are undocumented, they are not even mentioned in comparative tests such as QST's.) Is this really the case? Are they much worse than a low end scanner?

I started out leaning toward the Standard (built like the proverbial battleship) but was put off by /having to get CTCSS as an addon.

I am now undecided between the Yaesu and the ICOM but am leaning toward the ICOM because it *may* be able to serve as a poor man's monophonic walkman (88-108Mhz reception).

Can an owner comment?

There is another question I'd appreciate an informed answer to. There are a few extended RX channels I'd like to scan on occasion and would devote a few memory locations to them. Presumably, the units requiring the hardware mods would be able to remember the frequencies. Would the ICOM forget them? I assume the extended RX must be reentered each time the unit is turned on, or is the unit smart enough to remember them, even though they're extended frequencies?

(All comments and corrections--even flames--gratefully appreciated.)

Date: 10 Apr 1994 06:36:42 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!vixen.cso.uiuc.edu!newsrelay.iastate.edu!news.iastate.edu!jdwhite@network.ucsd.edu
Subject: HTs with extended RX
To: ham-equip@ucsd.edu

In article <1994Apr9.171443.2196@hnrc.tufts.edu>,
Jerry Dallal <jerry@hnrc.tufts.edu> wrote:
> It seems there are many of us in the market for a dual band HT with extended RX so that one can be mobile with the greatest amount of RX capability and the fewest number of units. My summary of what's been offered is (no hands on experience with any units) is . . .
>
> The suggested models are
>
> | | QST (March 1994) typical sellling price | reported extended RX (from various mod files) |
> |---|---|---|
> | ICOM W21AT | 514 | 50-999 |
>
> The W21AT has the widest range of extended RX.
>
> Some questions remain, however. There have been reports that the wideband reception in these units limits their abilities as scanner-replacements. (Unfortunately, since these capabilities are undocumented, they are not even mentioned in comparative tests such as QST's.) Is this really the case? Are they much worse than a low end scanner?

Depends on where your scanning. If your scanning in or near the HAM bands the unit was designed to receive it'll do nicely. Also, a lot of these units

lack a sufficient number of memories to be used as a true scanner replacement.

> I am now undecided between the Yaesu and the ICOM but am
> leaning toward the ICOM because it *may* be able to serve as a
> poor man's monophonic walkman (88-108Mhz reception).
> Can an owner comment?

I've never seen an HT that will receive an FM signal in wide-band FM mode, which is what you would need if you plan on listening to anything in this range. My W2A will receive *strong* signals in this range, but is utterly useless because it's receiving it as a narrow-band FM signal.

> There is another question I'd appreciate an informed answer to.
> There are a few extended RX channels I'd like to scan on occasion
> and would devote a few memory locations to them. Presumably, the units
> requiring the hardware mods would be able to remember the frequencies.

Hardware mods or software mods, every HT I've ever seen will remember them.

> Would the ICOM forget them? I assume the extended RX must be reentered
> each time the unit is turned on, or is the unit smart enough to
> remember them, even though they're extended frequencies?

From my experience with Icom units, the "extended recieve mods" configures the CPU in a fairly permanant way (you *DON'T* have to perform the sequences every time you turn it on. Most HTs I've seen will remember whatever frequency you enter into the memory.

Quite frankly, if you're a serious scanner enthusiast you'll be sorely disappointed with using an HT as a scanner unless your content with scanning only a few frequencies at a time and aren't going to be scanning too far out of band (20-30 MHz). As always, your RX milage will vary from HT to HT.

-Jason
--
Jason D. White Durham Center Operations Staff
jdwhite@iastate.edu Repeater Chairman, Cyclone Amateur Radio Club
Iowa State University Packet: n0rwu @ ki0q.#cia.ia.usa.na
Ames, Iowa

Date: Fri, 8 Apr 1994 18:43:55 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!tgm@network.ucsd.edu
Subject: I passed my tests-now what?
To: ham-equip@ucsd.edu

Roger Keating (keating@nosc.mil) wrote:
: My suggestion: buy a quality mid-level used HF rig and find out what
: interest you on the bands and what the features are that you like to
: use.
:
: Roger Keating - KD6EFQ
: keating@nosc.mil

I agree with Roger. I've heard that there is a saying among
amateur astronomers: "Don't build your last telescope first".
I guess an analogous statement with regard to ham radio is
true too: "Don't buy (or build) your last rig first".

Thomas
KI4N

Date: 9 Apr 94 01:31:53 GMT
From: dog.ee.lbl.gov!newshub.nosc.mil!news!news@ucbvax.berkeley.edu
Subject: I passed my tests-now what?
To: ham-equip@ucsd.edu

Doug Hamilton's description of how he picked his first new rig was fun
to read. Doug, now what do you like more about the hobby, shopping for
the rig, or actually using it?

Like you, I enjoy thinking about my choices and figuring the ways they
could work out for me.

If you're going to buy a new radio, Doug's way seems to make the most
of the experience as well as the outcome.

Roger Keating - KD6EFQ
keating@nosc.mil

Date: 9 Apr 1994 22:01:07 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!news.msfc.nasa.gov!
sol.ctr.columbia.edu!news.columbia.edu!namaste.cc.columbia.edu!
mrw13@network.ucsd.edu
Subject: Kenwood TH-78A *OR* Yaesu FT-530
To: ham-equip@ucsd.edu

Has anybody tried both of the above radios and could tell me which of the two
I should choose? I hear the Kenwood is nice and small, has a great display,
but is a bit hard to program and does suffer from intermod problems. Please

email any "votes" or comments. Thanks.

-Marc Wollemborg
 <mrw13@columbia.edu>

Date: 9 Apr 94 16:30:18 GMT
From: agate!howland.reston.ans.net!wupost!csus.edu!netcom.com!
march@ucbvax.berkeley.edu
Subject: Marine Ham set recommendations
To: ham-equip@ucsd.edu

 I have a Kenwood TS-450 which has been on the boat for 2.5 years now
and has worked out fine as has the SGC-230 tuner.

 I would recommend the new radio by SGC that is both a marine SSB
and Ham Radio. Although I hold an Advanced license, a number of
friends currently out cruising are not ham licensed and use the
marine SSB frequencies for scheduled contacts, etc.

 The Kenwood has a number of 100 memory registers which has been
great for storing net, WXFAX, BBC, etc frequencies.

 Marc

End of Ham-Equip Digest V94 #101
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